Kodak DryView 8900 LASER IMAGER **Modifications**

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER

Service Codes: 1442 and 4878

Modification No. 10 Type 3 Optional

Purpose: To install the Anti-Virus solution on Kodak products.



Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: The customer must provide the following software:

• McAfee ePolicy Orchestrator (ePO) AGENT Version 3.5 on a CD-ROM

• McAfee VirusScan SOFTWARE Version 7.1

Serial Numbers: All

Installation Time: 1.5 hours

Special Tools: • A LAPTOP with the following software installed:

Symantec pcAnywhere SOFTWARE

Kodak SECURE LINK CLIENT SOFTWARE Version 1.2.2 or higher

Parts Status: None Parts Requirements: None



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT

The parts are not in Service Parts Management. Order the publications from your Regional Dispatch Center or Regional Specialist. See <u>Step 2</u>.

2 12JUL05 – 8F2148

Before Installing the Modification

- [1] Check that the customer wants Kodak to install the Anti-Virus Solution.
- [2] Until the publications are included in the next release of the Service Collection CD, ask your Regional Dispatch Center or Regional Specialist to send you an e-mail with the following publications:
 - McAfee Anti-Virus Solution for Kodak Products Installation Prerequisites 8F1874
 - McAfee Anti-Virus Solution for Kodak Products Installation Guide and Configuration Recommendations 8F1819
- [3] Read the instructions in the McAfee Anti-Virus Solution for Kodak Products Installation Prerequisites 8F1874.
- [4] Check with your Regional Dispatch Center that the customer has sent a fax of the signed Application for the Installation of 3rd Party Software 1G0090.

Installing the Modification

[1] Install the Anti-Virus Solution. See the *McAfee* Anti-Virus Solution for *Kodak* Products Installation Guide and Configuration Recommendations 8F1819.

Completing the Modification

- [1] Check that the equipment operates correctly.
- [2] Select System Information>Service History>Modify.
- [3] Record MODIFICATION 10 in the "Service History Log".
- [4] Record the following information for feedback:

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M10		
	4878		M10		

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
12JUL05	8F2148			8f21468.fm	New Publication

8F2148 – 12JUL05 3

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MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 1 Type 1 Required

Purpose: To allow the Kodak DryView 8900 LASER IMAGER to pick up film reliably.



Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: Mandatory on the next call

Serial Numbers: 8900666 and below

Installation Time: 0.75 hours
Special Tools: None

Parts Status:

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT 7F3204 includes:

Part No.	Description	Quantity
8E4327	CARRIAGE	6
8E4462	TUBING	6
78-8094-5694-6	CUP	12
8E4919	CUP SCREW	12
26-1005-9819-7	E-RINGS (Spares)	24
7F3210	MODIFICATION INSTRUCTIONS, Rev A	1

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Installing the Modification



Important

You must do this modification procedure for all 3 PICKUP AND FEED MODULES in the LASER IMAGER.

- [1] De-energize the LASER IMAGER.
- [2] Remove the ROLLBACK MODULE and the DRAWER adjacent to the PICKUP AND FEED MODULE that is to be modified. See the ADJUSTMENTS AND REPLACEMENTS MANUAL 8E5982.

Section	Procedure
Replacements	ROLLBACK MODULE

[3] Remove the ROLLBACK MODULE and DRAWER above the PICKUP AND FEED MODULE to be modified.

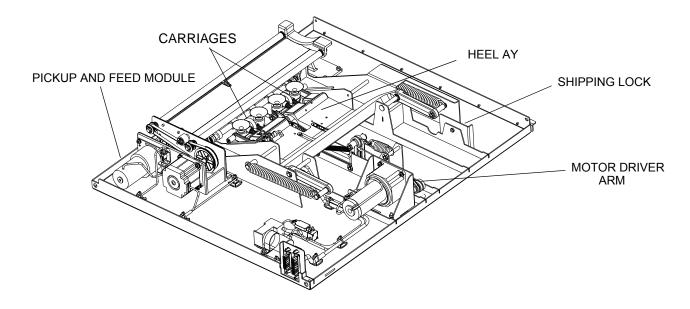


Step 3 does not apply to the top PICKUP AND FEED MODULE.

[4] Remove the PICKUP AND FEED MODULE to be modified from the LASER IMAGER. See the ADJUSTMENTS AND REPLACEMENTS MANUAL 8E5982.

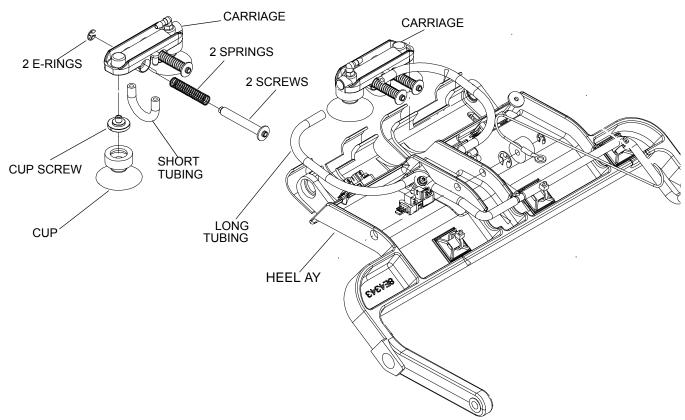
Section	Procedure
Replacements	PICKUP AND FEED MODULE

[5] Place the PICKUP AND FEED MODULE on a work surface.



- [6] Hold the HEEL AY down and disengage the SHIPPING LOCK.
- [7] Rotate the MOTOR DRIVER ARM to move the HEEL AY to the up position.
- [8] Continue to rotate the MOTOR DRIVER ARM to gain access to the 2 CARRIAGES.

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- [9] For each CARRIAGE AY in this PICKUP AND FEED MODULE:
 - (a) Remove 2 E-RINGS.
 - (b) Disconnect the LONG TUBING from the CARRIAGE.
 - (c) Remove the CARRIAGE with the other parts assembled.

Note

It is not necessary to remove the CUPS, CUP SCREWS, and SHORT TUBING from the removed CARRIAGE.

- [10] Discard the removed CARRIAGES with CUPS, CUP SCREWS, and SHORT TUBING.
- [11] Install 2 of the new CARRIAGES provided in the KIT.
 - (a) Connect the LONG TUBING to the CARRIAGE.
 - (b) Insert the new CARRIAGE onto the original SCREWS and SPRINGS.
 - (c) Install the 2 E-RINGS.
- [12] Hold the HEEL AY down and rotate the MOTOR DRIVER ARM to place the HEEL AY in the down position.
- [13] Engage the SHIPPING LOCK.
- [14] Install the PICKUP AND FEED MODULE in the LASER IMAGER. See the ADJUSTMENTS AND REPLACEMENTS MANUAL 8E5982.

Section	Procedure
Replacements	PICKUP AND FEED MODULE

- [15] Do the modification procedure described above for the other 2 PICKUP AND FEED MODULES.
- [16] When all PICKUP AND FEED MODULES are modified, install the ROLLBACK MODULES and DRAWERS. See the ADJUSTMENTS and RELACEMENTS MANUAL 8E5982.

Section	Procedure
Replacements	ROLLBACK MODULE

- [17] Energize the LASER IMAGER.
- [18] Run transport test film to check film pickup.

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Completing the Modification

- [1] Use the SERVICE TOOL to record "Mod 1" in the Service History Log.
- [2] Record the following information for feedback.

K-number	Service Code	Serial No.	Activity Code	Installation Time
	1442		M01	

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	Notes
11NOV03	7F3210	CN0004361		New Publication

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MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 02 Type 1 Selective

1. Purpose

The purpose of this Modification is to set up the *Kodak DryView* 8900 LASER IMAGERS to select the Type of Cartridge, either CE Marked, Non CE Marked, and the Type of FILM, DVB, DVB+, or DVB+ Premium, used in the IMAGER.

Note: Do this Modification during the next service call after the new FILM is available to the field. Refer to Table 1 for the new catalogue number list.

The existing 2K RF Tag software version enables the 8900 LASER IMAGER to:

- Use only FILMS that comply with European CE marking requirements
 - In European Union countries, accept only CE Marked FILMS
 - In Emerging Markets/non-EU countries, accept both CE and non CE Marked FILMS
- Use only FILMS that meet the customer's FILMS type preference
 - Customers that have selected DVB+ and DVB+ Premium FILMS will have their IMAGERS preset to use those types only.
 - Customers that have selected DVB FILMS will have their IMAGERS preset to use this type only.

The Cartridge RF Tag chip is coded differently according to Type of FILM and CE Marking. Through the 2 K RF Tag software version, the LASER IMAGERS recognize the FILM and accept or reject this FILM according to the LASER IMAGER setup applied by the Field Engineers.



Confidential Restricted Information ©Eastman Kodak Company, 2004 EAMER Service Engineering will communicate when to apply the setup described in this Modification. The activation of this setup will be made during a Next Call. We request the Field Engineers to feedback 0.1 labor hours to Activity Code M02.

2. Prerequisite

Before you use these Modification Instructions at the customer site, verify the following:

- Type of Cartridge (CE Marked, Non CE Marked)
- Type of FILM (DVB, DVB+, DVB+ Premium)

Note: You must use the proper catalogue number at the customer site. See Table 1.

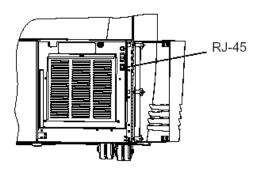
Table 1

FILM Size	LASER IMAGER	DVB "CE" (blue base)	DVB+ "CE" (higher blue base)	DVB "non- CE" (blue base)	DVB+ Premium "CE" (higher blue base)	Description
35x43 cm	8900	135 4430	1069590	872 3132	179 9139	500 sheets
35x35 cm	8900	165 6511	1909746	838 4489	144 1856	package
35x28 cm	8900	870 5782	1495126	110 2631	106 7222	(4 cartridges
25x30 cm	8900	165 1942	1592229	128 6533	898 6663	of 125 sheets)
20x25 cm	8900	154 9088	1491588	861 3424	829 1957	3110613)

3. Setup for the Kodak DryView 8900 LASER IMAGER

3.1. Connect your Service Laptop

Connecting Your LAPTOP COMPUTER



- 1 Open the RIGHT FRONT DOOR.
- 2 Connect your LAPTOP COMPUTER to the RJ-45 CONNECTOR with a CROSSOVER CABLE.



This is the Service Port for the 8900 LASER IMAGER. If you do not know the IP Address for the port, obtain it from the LOCAL PANEL after power up.

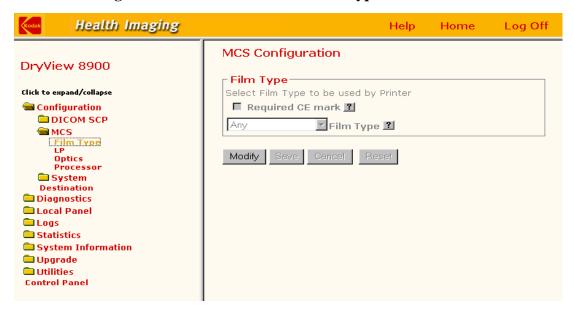
Connect to the SERVICE TOOL through your LAPTOP COMPUTER by means of the Secure Tunnel. The main menu of the SERVICE TOOL will display, including the Configuration items:



3.2. From the **Main** menu click on **Configuration**.



3.3. From the Configuration menu select MCS > Film Type.



3.4. Setup for "all Types of Films" and "all Types of Cartridges"

- a) If "Required CE mark" box is checked, select **Modify** and remove the checkmark.
- b) Click Save.

Note: When the "Required CE mark" box is unchecked, **Any** Film Type is automatically selected.

With this setup, all FILMS and cartridges are accepted by the printer: DVB, DVB+, DVB+ Premium Films / CE Marked, Non CE Marked Cartridges.

3.5. Setup for "DVB Film and CE Marked Cartridges"

- a) From the Film Type screen, click **Modify** and check the "Required CE mark" box.
- b) From Film Type box, select **Clear and Blue**.
- c) Click Save.

With this setup, the printer accepts only DVB FILM and CE Marked Cartridges

3.6. Setup for "DVB+ or DVB+ Premium Films and CE Marked Cartridges"

DVB+ and DVB+ Premium FILMS are always CE Marked

- a) From the Film Type screen, click **Modify** and check the "Required CE mark" box.
- b) From Film Type box, select Clear and Blue Plus.
- c) Click Save.

With this setup, the printer accepts only DVB+ , DVB+ Premium FILMS and CE Marked Cartridges.

3.7. Film Type Selection according to Customer Area

Follow the guidelines in Table 2.

Table 2

Area	Film Cartridge Usage	Film Type Usage	Setup for the LASER IMAGER
- EU Members - Switzerland	CE Marked	DVB+ Premium	Follow instructions from paragraphs 3.1/3.2/3.3/3.6
	CE Marked	DVB+	Follow instructions from paragraphs 3.1/3.2/3.3/3.6
	CE Marked	DVB	Follow instructions from paragraphs 3.1/3.2/3.3/3.5
Africa, Middle East, Eastern Europe, Russia	"Non CE"	DVB	Follow instructions from paragraphs 3.1/3.2/3.3/3.4

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7F3407 – MAY04 RevB

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 3 Type 1 Selective

Purpose: To add a SORTER AY to the IMAGER.



Qualified service personnel must install this modification.

Service Effects: None
Special Requirements: None

Serial Numbers: Not Applicable

Installation Time: 1.5 hours

Special Tools: • LAPTOP COMPUTER

• SERVICE TOOL with Microsoft INTERNET EXPLORER 5.5 or higher

• CROSSOVER CABLE

Parts Status: This modification is ordered through the Sales organization.

Parts Requirements: See Page 2.



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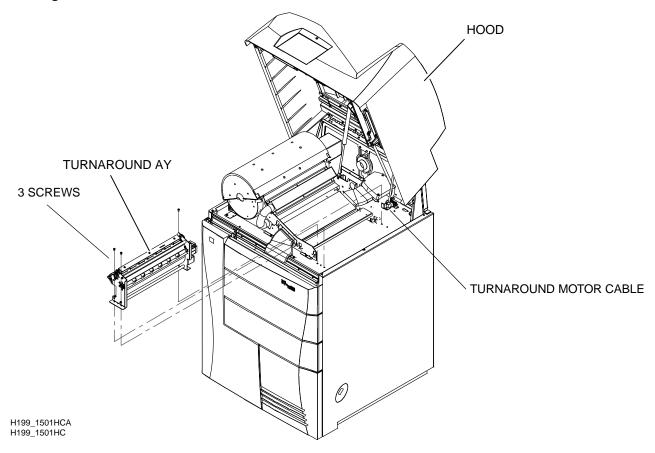
This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT SP8919912 includes:

Part No.	Description	Quantity
8E4649	SORTER AY	1
7E7744	SCREW - Torx T-20, M4 x 10, metric	9
8E1969	FILM TRAY - sorter, hood	5
8E4275	EXIT TRAY POST BRACKET	1
26-1004-5503-4	WASHER - flat, 4.88 ID x 12.0 OD x 1.4T, metric	3
26-1007-2397-7	NUT - M4 x 0.7, metric	4
8E4283	BOLT - tray, sorter, hood	4
8E4596	LABEL	1
7F3679	MODIFICATION INSTRUCTIONS	1

Installing the Modification

Installing the SORTER AY



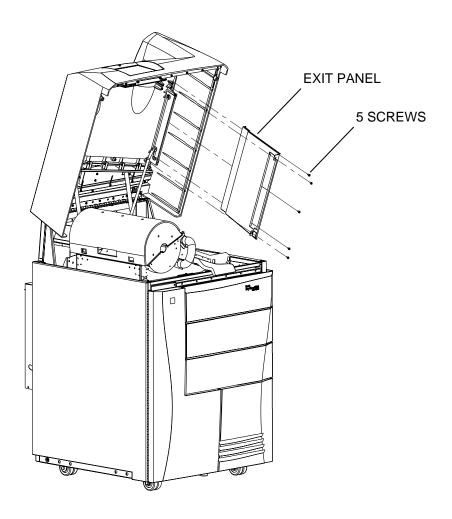


Warning

Dangerous Voltage

- [1] De-energize the LASER IMAGER.
- [2] Disconnect the POWER CABLE.
- [3] Lift the HOOD.
- [4] Disconnect the TURNAROUND MOTOR CABLE.
- [5] Remove:
 - 3 SCREWS
 - TURNAROUND AY

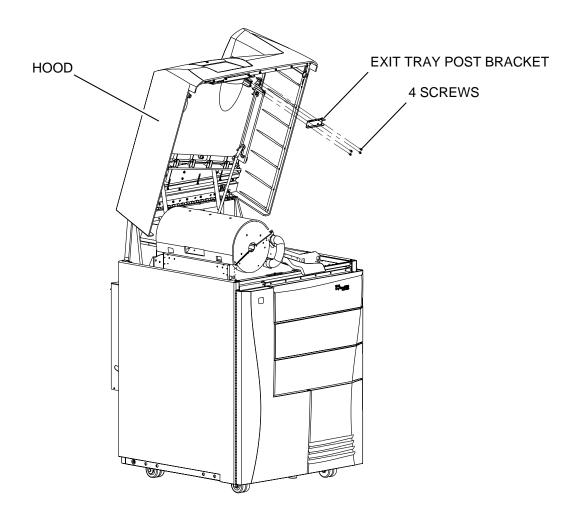
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H199_1502HCA H199_1502HC

[6] Remove:

- 5 SCREWS
- EXIT PANEL



H199_1503HCA H155_1503HC



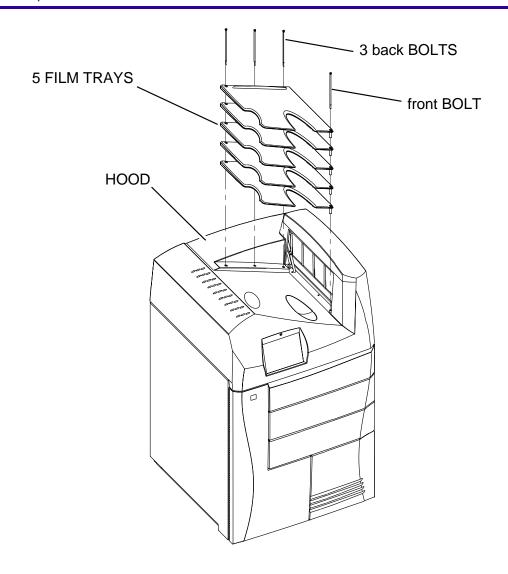
Caution

Do not tighten the SCREWS excessively.

[7] With the POST in the up position, use 4 new M4 x 10 SCREWS to install the EXIT TRAY POST BRACKET on the HOOD.

[8] Close the HOOD.

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H199_1504HCA H199_1504HC

[9] Place the 5 FILM TRAYS on the HOOD.

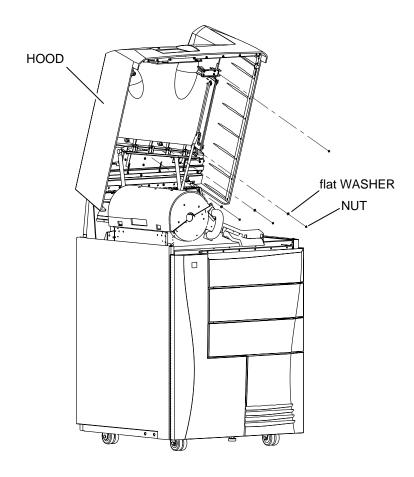


Caution

Do not tighten the BOLTS excessively.

[10] Install:

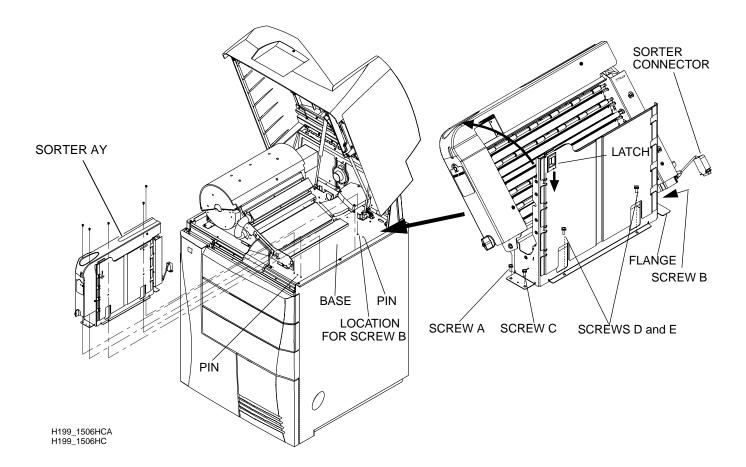
- 3 back BOLTS tighten from right to left
- front BOLT



H199_1505HCA H199_1505HC

- [11] Lift the HOOD.
- [12] Install onto the 3 back BOLTS:
 - WASHER
 - NUT
- [13] Install onto the front BOLT:
 - WASHER
 - NUT

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Important

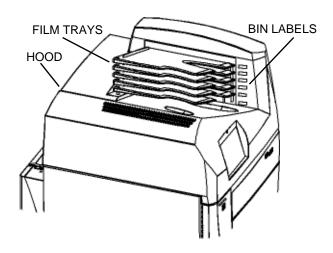
SCREWS A through E in the following procedure are new M4 x 10 SCREWS supplied in the KIT.

[14] Partially install SCREW B in the BASE where the SORTER AY will be installed.



Do not tighten SCREW B.

- [15] Position the SORTER AY on the IMAGER and slide its back FLANGE under SCREW B and into the back PIN.
- [16] Lower the front FLANGE of the SORTER AY onto the front PIN.
- [17] Install:
 - SCREW A
 - · SCREWS D and E
- [18] Pull the LATCH down.
- [19] Rotate the SORTER forward.
- [20] Install SCREW C.
- [21] Return the SORTER to the up position.
- [22] Tighten SCREW B.
- [23] Connect the SORTER CONNECTOR.



- [24] Close the HOOD.
- [25] Energize the IMAGER.
- [26] Install the BIN LABELS on the FILM TRAYS.

Connecting to the SERVICE TOOL

- [1] Open the right FRONT DOOR.
- [2] Use a CROSSOVER CABLE to connect the LAPTOP COMPUTER to the SERVICE PORT at the front of the IMAGER.
- [3] "Renew" the DHCP connection between the LAPTOP COMPUTER and the IMAGER.

For Windows 2000 or Windows NT OPERATING SYSTEMS	For Windows 98 OPERATING SYSTEMS	
a. Open the DOS window.	a. Select Start>Run .	
b. Type: ipconfig /release	b. Type: winipcfg	
c. Type: ipconfig /renew	c. Select "network adapter".	
	d. Click:	
	• [Release All]	
	• [Renew All]	



You can also "renew" the DHCP connection by booting your LAPTOP COMPUTER when it is set for DHCP and connected to the IMAGER.

- [4] Select Start>Programs>Kodak>SecureLink.
- [5] Select the "Connect" tab.
- [6] Type the correct "Server" name.
- [7] Type in the "IP address" window: 192.168.0.1.
- [8] Click:
 - [Save Server]
 - [Connect]
- [9] Select Start>Programs>Kodak>Service WebLink.

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Checking the "Hardware Installed"

[1] Select Configuration>MCS>Hardware Installed.





Important

If a SORTER is installed on the IMAGER, the "Sorter Installed" box must be selected.

- [2] Click [Modify].
- [3] Select the "Sorter Installed" check box.
- [4] Click [Save].
- [5] Restart the IMAGER.

Upgrading the Software for the SORTER MICROCONTROLLER



Important

- You must do this procedure only if a "20-156" error occurred when you restarted the IMAGER. This error indicates that the software on the MICRO BOARD of the SORTER AY needs to be upgraded.
- The HOOD of the IMAGER must remain closed and the IMAGER must remain energized during this procedure.
- [1] Use "SecureLink" and the "Service WebLink" to display the SERVICE TOOL on your LAPTOP COMPUTER.
- [2] From the "Main Menu" of the SERVICE TOOL, select Upgrade>Microcontrollers.

DryView 8900 Click to expand/collapse

- Configuration
- Diagnostics
- Local Panel
- a Logs
- Statistics
- System Information
- Upgrade
 Application
 Microcontrollers
- Utilities Control Panel

System Microcontrollers

Verify displayed system Microcontrollers version match MC versions. Perform update when necessary

Microcontroller	Micro Version	MCS Version
Densitometer	DENSI01.02.09	DENSI01.02.09
Optics	OPTICS_04.04.01	OPTICS_04.04.01
Optics FPGA	0x000a	0x000a
Processor	PROC04.01.14	PROC04.01.14
RF Tag	RF_TAG_02.02.13	RF_TAG_02.02.13
Sorter	SORTER_01.06.S8	SORTER_01.06.S8
Tray	TRAY02.08.22	TRAY02.08.22
EBA	EBA03.01.03	EBA03.01.03
EBA FPGA	0x0803	0x0803

Update



Important

- The "Version Numbers" in your IMAGER might not be the same as displayed.
- The "Micro Version" must be the same as the "MCS Version".
- [3] In each row, compare the software version identified in the "Micro Version" list with the version in the "MCS Version" list.
- [4] Place a check in the box by the name of the "Microcontroller" for all version numbers that are not the same.
- [5] Click [Update].



Status messages will indicate the status of the upgrade.

- [6] When the upgrade completes, check that the version numbers in the 2 lists are the same.
- [7] Restart the IMAGER to clear the 20-156 error.
- [8] Reconnect the SERVICE TOOL.

Doing the SCP Services Configuration

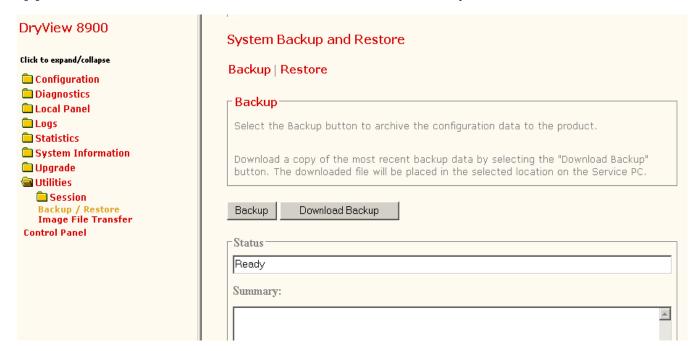
- [1] Have each SCU send an image to make a connection with the IMAGER.
- [2] Select Configuration>DICOM SCP>SCP Services.
- [3] Select "Other Options" from the "SCP Services Configuration" screen.
- [4] For each SCU, set the "Sorter Bin" parameter as follows.

Parameter	Action	Recommended Setting
"Sorter Bin" - This parameter	Check with the user. Select a default exit	For "Always Apply", select
is available only if the	BIN for film processed from this SCU,	YES for each SCU.
SORTER is installed.	from BIN 1 through BIN 6.	

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Backing up the System Configuration

[1] From the "Main Menu" of the SERVICE TOOL, select Utilities>Backup/Restore.

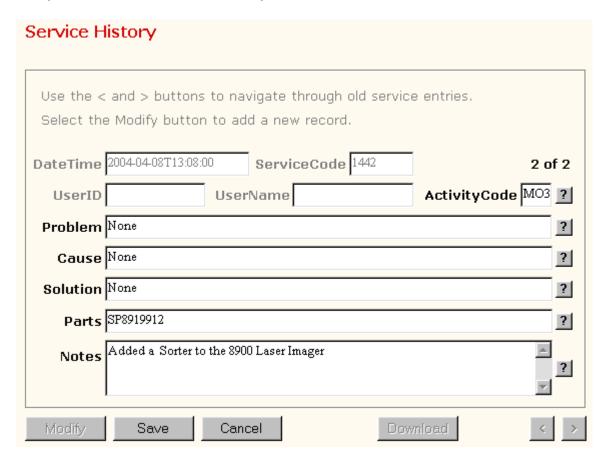


[2] Click:

- [Backup]
- [Download Backup]
- [3] Make a copy of the configuration on a FLOPPY DISKETTE in your LAPTOP COMPUTER.

Editing the Service History Log

[1] Select System Information>Service History.



[2] Click [Modify].



The following fields on the screen are filled in automatically:

- "DateTime"
- "ServiceCode"
- "UserID"
- "UserName"
- [3] Type data about the installation in the other fields.
- [4] Click [Save].
- [5] Check that the IMAGER and SORTER BINS operate correctly.
- [6] Place the SHIPPING LABEL on the SHIPPING CONTAINER.
- [7] Send the SHIPPING CONTAINER to Kodak.

Completing the Modification

[1] Record the following information for feedback:

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M03		SP8919912

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Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
03MAY04	7F3679	CN0004679		7f3679.fm	New Publication

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MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 4 Type 1 Selective

Purpose: To add a FILM DRAWER to the IMAGER.



Qualified service personnel must install this modification.

Service Effects: None
Special Requirements: None

Serial Numbers: Not Applicable

Installation Time: 2.0 hours

Special Tools: • LAPTOP COMPUTER

• SERVICE TOOL with Microsoft INTERNET EXPLORER 5.5 or higher

• CROSSOVER CABLE

Parts Status: This modification is ordered thrugh the Sales organization.

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT 1976794 includes:

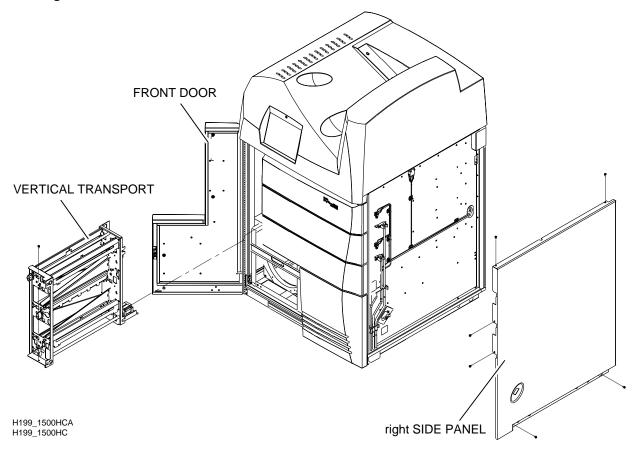
Part No.	Description	Quantity
5E7863	ROLLBACK AY	1
5E7933	PICKUP AY	1
8E1193	LATCH AY	1
8E4829	TRACK	2
8E1200	DRAWER PANEL	1
8E4953	CABLE KIT - includes ACCESS WINDOW COVER	1
2B4081	SCREW - Torx T-20, M4 x 8, metric	6
7E7744	SCREW - Torx T-20, M4 x 10, metric	7
943600	SCREW - Torx T-20, M4 x 18, metric	4
7E9186	WASHER - Flat, 1.67 ID x 0.561, metric	4
7F3680	MODIFICATION INSTRUCTIONS	1



Extra hardware is included in the MODIFICATION KIT.

Installing the Modification

Installing the SORTER AY



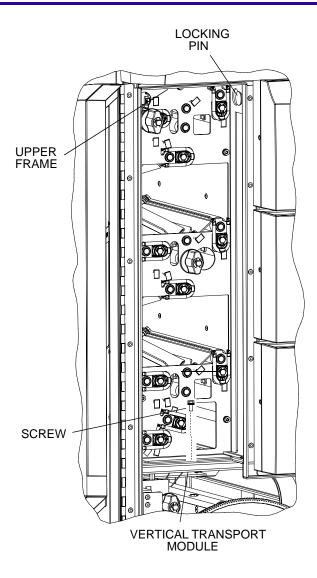


Warning

Dangerous Voltage

- [1] De-energize the LASER IMAGER.
- [2] Disconnect the POWER CABLE.
- [3] Open the HOOD.
- [4] Remove the right SIDE PANEL.
- [5] Open the FRONT DOOR.

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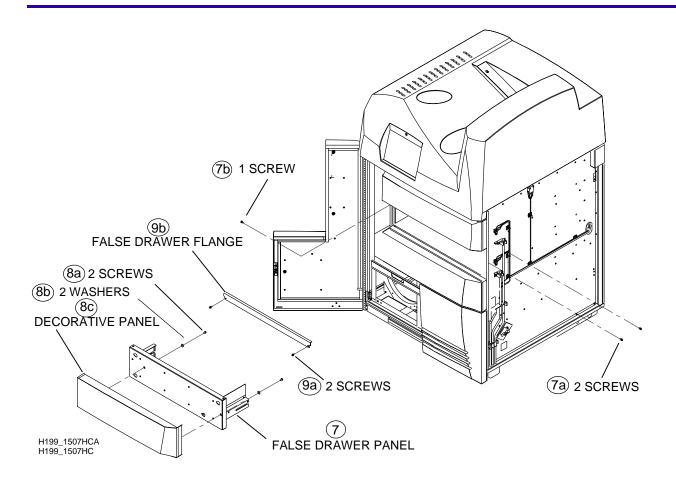
- [6] Remove the VERTICAL TRANSPORT MODULE.
 - (a) Remove the SCREW.
 - **(b)** Pull the VERTICAL TRANSPORT MODULE forward approximately 3 mm (0.5 in.).
 - (c) Move the VERTICAL TRANSPORT MODULE to the left to disengage it from the LOCKING PIN.



Caution

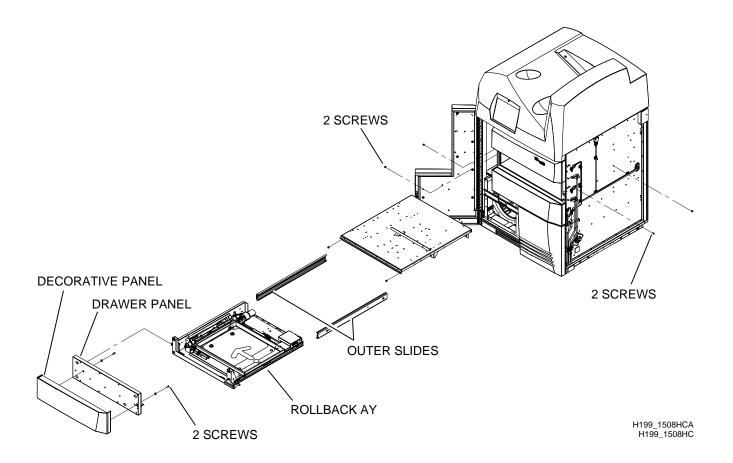
To avoid damage to the top of the VERTICAL TRANSPORT MODULE, do not allow it to strike the UPPER FRAME during removal.

(d) Lift and guide the top of the VERTICAL TRANSPORT MODULE under the UPPER FRAME to remove it.

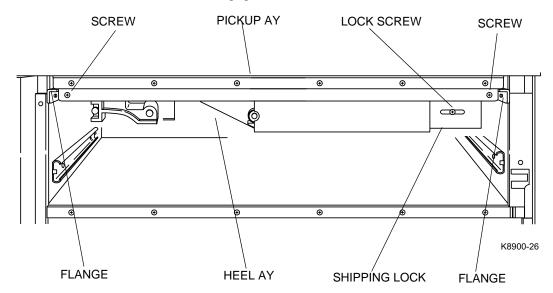


- [7] Remove the FALSE DRAWER PANEL.
 - (a) Remove 2 SCREWS on the right side.
 - (b) Remove 1 SCREW in the area of the VERTICAL TRANSPORT.
- [8] Remove from the FALSE DRAWER PANEL.
 - (a) 2 SCREWS
 - (b) 2 WASHERS
 - (c) DECORATIVE PANEL
- [9] Remove and discard:
 - (a) 2 SCREWS
 - (b) FALSE DRAWER FLANGE

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- [10] Use 2 new M4 x 18 SCREWS and 2 new flat WASHERS to install the DECORATIVE PANEL on the new DRAWER PANEL.
- [11] Install the new right and left TRACKS for the new DRAWER AY.
 - (a) Position the TRACKS inside the IMAGER.
 - (b) Install 2 new M4 x 8 SCREWS on each TRACK.
- [12] Install the new PICKUP AY.
 - (a) Remove the DRAWER AY located directly above the location for the new DRAWER.
 - (b) Check that the SHIPPING LOCK is engaged on the new PICKUP AY.



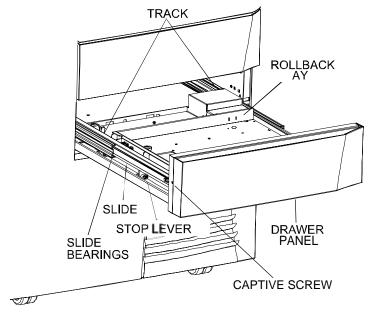
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- (c) Install the PICKUP AY on the FRAME FLANGES.
- (d) Move the PICKUP AY all the way into the IMAGER.
- (e) Install and tighten 2 new M4 x 10 SCREWS.



Caution

- To avoid damage, the SHIPPING LOCK must be disengaged before power is applied to the IMAGER.
- To avoid injury, do not place your hands under the HEEL AY after the SHIPPING LOCK is disengaged. The HEEL AY can drop with extreme force.
 - (f) Loosen the LOCK SCREW.
 - (g) Move the SHIPPING LOCK fully to the right.
 - (h) Tighten the LOCK SCREW.
- [13] Install the ROLLBACK AY and DRAWER.



- (a) Install the DRAWER PANEL and DECORATIVE PANEL on the DRAWER.
- (b) Tighten the CAPTIVE SCREW.

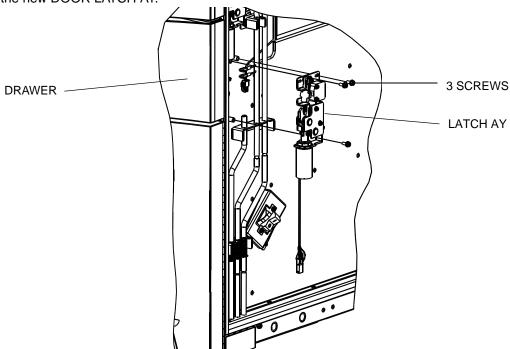


Caution

- When you install the DRAWER SLIDES on the TRACKS, you must align the SLIDES correctly with the TRACKS.
- To prevent damage to the SLIDE BEARINGS, the SLIDES must be horizontal when inserted into the TRACKS.
 - (c) Remove the TIE-WRAP from the center of the ROLLBACK ROLLER.
 - (d) Carefully install the DRAWER in the TRACKS.
 - (e) Push the DRAWER all the way to the back until it is in the closed position.

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[14] Install the new DOOR LATCH AY.

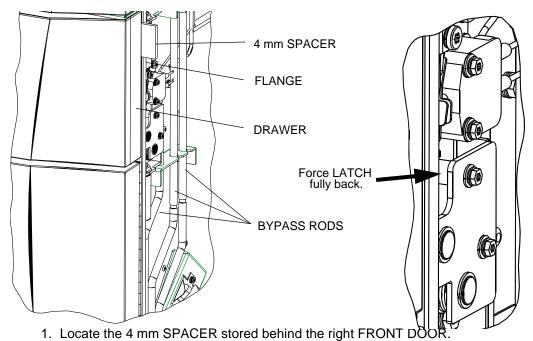


(a) Install the LATCH AY with 3 M4 x 10 SCREWS.



Do not tighten the 3 SCREWS.

(b) Adjust the position of the LATCH AY.



- 2. Insert the 4 mm SPACER between the DRAWER and the FLANGE.
- 3. Press the DRAWER in against the SPACER to lock the LATCH.
- 4. Use a SCREWDRIVER to press the LATCH fully to the back position.
- 5. Tighten the 3 SCREWS.
- (c) Open and close the DRAWER 2 or 3 times to check that the DRAWER closes properly.
- (d) Route the CABLES behind the DRAWER BYPASS ROD and connect to the DRAWER INTERLOCK SWITCH and the SOLENOID, using the existing LATCH AY as an example.

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- [15] Reinstall the DRAWER that was removed from above the new DRAWER.
- [16] Adjust the DECORATIVE PANEL..
 - (a) Sight along the right side of the IMAGER to check horizontal alignment of this DRAWER with the other DRAWER(S).
 - **(b)** Position the DECORATIVE PANEL correctly.
 - (c) Open the DRAWER.

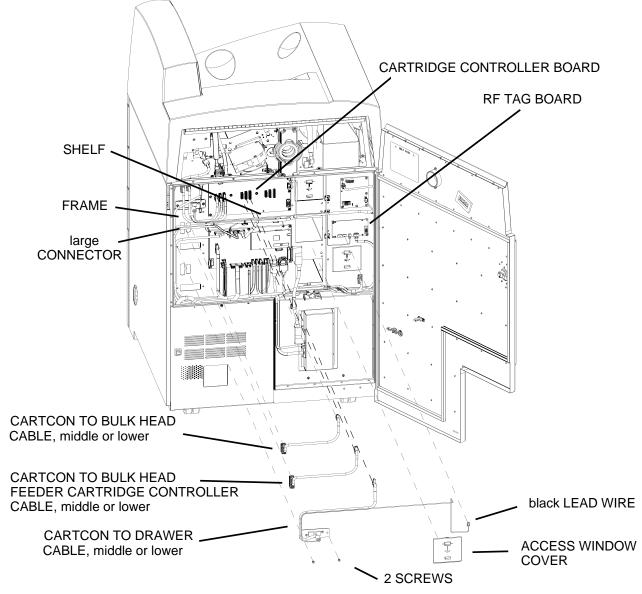


Important

Do not overtighten the 2 SCREWS attaching the DECORATIVE PANEL.

(d) Tighten the 2 SCREWS with WASHERS.

[17] Install the CABLES.





Important

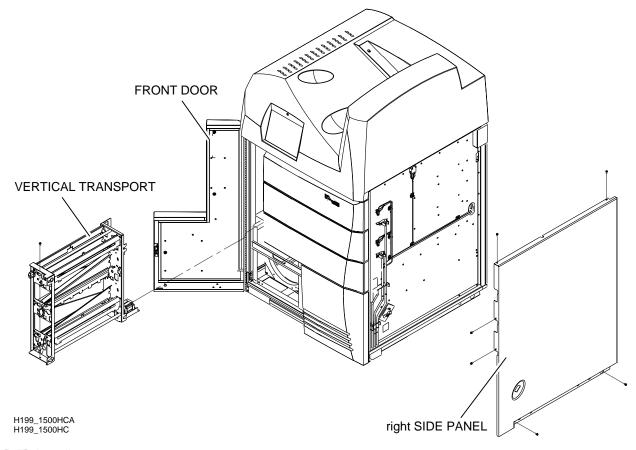
- The CABLE KIT includes 3 CABLES each for the middle and lower DRAWERS. The LABEL on each CABLE identifies the CABLE.
- The large CONNECTOR must be aligned correctly.

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[18] If necessary, connect the CABLES for the middle DRAWER:

CABLE	From:	То:
CARTCON TO DRAWER CABLE	Small CONNECTOR on the FRAME	CARTRIDGE CONTROLLER BOARD
CARTCON TO BULK HEAD CABLE	Large CONNECTOR on the FRAME	CARTRIDGE CONTROLLER BOARD
CARTCON TO BULK HEAD FEEDER CARTRIDGE CONTROLLER CABLE	Large CONNECTOR on the FRAME	CARTRIDGE CONTROLLER BOARD

- [19] Install 2 new M4 x 10 SCREWS to fasten the CARTCON TO DRAWER CABLE to the CONNECTOR on the FRAME.
- [20] Connect the black LEAD WIRE from the CARTCON TO DRAWER CABLE to the RF TAG BOARD.
- [21] If necessary, repeat <a>Step 18 <a>Step 20 for the lower DRAWER.
- [22] Route the CABLES on the SHELF similar to the top DRAWER CABLES.
- [23] Fasten the CABLES to the SHELF with TIE WRAPS.
- [24] Install the ACCESS WINDOW COVER.



[25] Install:

- VERTICAL TRANSPORT
- right SIDE PANEL
- [26] Close the FRONT DOOR.
- [27] Connect the POWER CABLE.
- [28] Energize the LASER IMAGER.

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Connecting to the SERVICE TOOL

- [1] Open the right FRONT DOOR.
- [2] Use a CROSSOVER CABLE to connect the LAPTOP COMPUTER to the SERVICE PORT at the front of the IMAGER.
- [3] "Renew" the DHCP connection between the LAPTOP COMPUTER and the IMAGER.

For Windows 2000 or Windows NT OPERATING SYSTEMS	For Windows 98 OPERATING SYSTEMS
a. Open the DOS window.	a. Select Start>Run.
b. Type: ipconfig /release	b. Type: winipcfg
c. Type: ipconfig /renew	c. Select "network adapter".
	d. Click:
	• [Release All]
	• [Renew All]

Note

You can also "renew" the DHCP connection by booting your LAPTOP COMPUTER when it is set for DHCP and connected to the IMAGER.

- [4] Select Start>Programs>Kodak>SecureLink.
- [5] Select the "Connect" tab.
- [6] Type the correct "Server" name.
- [7] Type in the "IP address" window: 192.168.0.1.
- [8] Click:
 - [Save Server]
 - [Connect]
- [9] Select Start>Programs>Kodak>Service WebLink.

Checking the "Hardware Installed"

[1] Select Configuration>MCS>Hardware Installed.



[2] Click [Drawers].

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Important

The check box for each DRAWER that is installed must be selected.

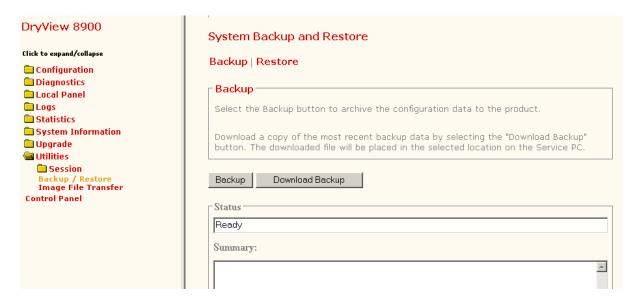
- [3] Click [Modify].
- [4] Select the check box for each DRAWER installed.
- [5] Click [Save].
- [6] Restart the IMAGER.

Checking IMAGER Operation

- [1] Load customer film into the DRAWERS.
- [2] Wait for the IMAGER to display "Ready".
- [3] Run prints from each DRAWER.

Backing up the System Configuration

- [1] Re-connect to the SERVICE TOOL.
- [2] From the "Main Menu" of the SERVICE TOOL, select Utilities>Backup/Restore.



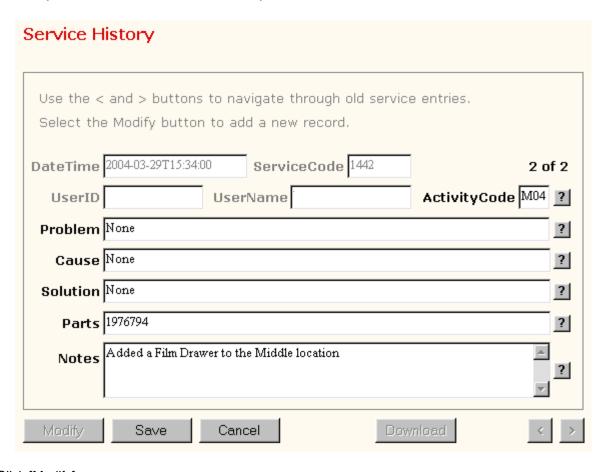
[3] Click:

- [Backup]
- [Download Backup]
- [4] Make a copy of the configuration on a FLOPPY DISKETTE in your LAPTOP COMPUTER.

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Editing the Service History Log

[1] Select System Information>Service History.



[2] Click [Modify].

Note

The following fields on the screen are filled in automatically:

- "DateTime"
- "ServiceCode"
- "UserID"
- "UserName"
- [3] Type the data about the installation in the other fields.
- [4] Click [Save].

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Completing the Modification

[1] Record the following information for feedback:

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M04		1976794

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
03MAY04	7F3680	CN0004679		7f3680.fm	New Publication

Kodak and DryView are trademarks of Eastman Kodak Company.

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 5 Type 1 Required

Purpose: To upgrade the *Kodak DryView* 8900 LASER IMAGER with Version E system software, which provides the following enhancements:

- Ability to image and process DryView Mammography Film
- Ability to configure the number of DRAWERS to be used in the IMAGER
- Ability to configure the system for use of an optional SORTER
- Ability to use an Energy Saver mode
- Ability to print images with 2 mm borders if Requested Image Size is not specified
- Ability to select D-Patch for 14 by 17 inch films. D-Patches are not used on other film sizes.
- Increases the number of film pickup attempts
- Service platform is upgraded to SecureLink version 1.2.1 and to WebLink version 1.1.b2.



Important

Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: Mandatory on the next call **Serial Numbers:** 890001438 and below

Installation Time: 2 hours

Special Tools: • LAPTOP COMPUTER with *Microsoft* INTERNET

EXPLORER 5.5 or higher

SERVICE TOOL

CROSSOVER CABLE

Parts Status: Available from Service Parts Management

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT SP7F6290 includes:

Part No.	Description	Quantity
7F0305	System Software on CD1 and CD2	1 set
7F3728	MODIFICATION INSTRUCTIONS, Rev A	1

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Installing the Modification

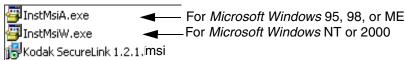
Updating the "SecureLink" and "WebLink" Software on Your LAPTOP COMPUTER



Important

The "SecureLink" and "WebLink" software on your LAPTOP COMPUTER must be upgraded to interface with Release 2 of the *Kodak DryView* 8900 LASER IMAGER.

- [1] Insert CD2 into your LAPTOP COMPUTER.
- [2] Open the Compact Disk DRIVE to display the "MCS" and "Service Tool" folders.
- [3] Open the "Service Tool" folder.
- [4] Open the "HISP SecureLink v1.2.1.b1 CD Rev A" folder.



Note

Some of these files may already be installed. This will be indicated by the message: "The specified service already exists."

- [5] Select the "exe" file that is correct for the Windows version installed in your LAPTOP COMPUTER.
 - (a) Double-click to start the installation process for the file.
 - (b) Follow the instructions on the screen to install the upgrade software.

Note

If it is necessary to remove old versions of SecureLink and WebLink, you can use "Add/Remove Programs" on the Control Panel.

- [6] Select the "Kodak SecureLink 1.2.1.msi" file.
 - (a) Double-click to start the installation process.
 - **(b)** Follow the instructions on the screen to install the upgrade software.
- [7] Open "Weblink Client".
- [8] Select the "Kodak WebLink 1.1.b2.msi" file.
 - (a) Double-click to start the installation process.
 - **(b)** Follow the instructions on the screen to install the upgrade software.
- [9] From the 'Service Tool" folder, open the "SST 1.0 Rev C" file.



These files may already be installed from a previous version of SecureLink.



- [10] Select the "Aruniupd.exe" file.
 - (a) Double-click to start the installation process.
 - **(b)** Follow the instructions on the screen to install the upgrade software.
 - (c) If asked to restart the computer, select [No].
- [11] Select the "setuppad.exe" file.
 - (a) Double-click to start the installation process.
 - **(b)** Follow the instructions on the screen to install the upgrade software.
 - (c) If asked to restart the computer, select [No].

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- [12] Select the "SST Controls.msi" file.
 - (a) Double-click to start the installation process.
 - (b) Follow the instructions on the screen to install the upgrade software.



Some of the files may already be installed. This will be indicated by the message: "The specified service already exists."

- [13] Remove CD2 from your LAPTOP COMPUTER.
- [14] Restart your LAPTOP COMPUTER.

Checking the Settings for Internet Explorer on your LAPTOP COMPUTER



Important

If the configuration settings for Internet Explorer on your LAPTOP COMPUTER are not correct, the SERVICE TOOL will not operate correctly.

- [1] Open Internet Explorer on your LAPTOP COMPUTER.
- [2] From the Main Menu bar, select Tools>Internet Options.
- [3] Select the "Security" tab.
- [4] Select the "Local Internet" icon.
- [5] Click the [Custom Level] button.
- [6] Under "Active X Controls and Plug-Ins":

Function	Set To
"Download signed Active X Controls"	Enable
"Download unsigned Active X controls"	Prompt
"Initialize and script Active X controls not marked as safe"	Prompt
"Run Active X controls and plug-ins"	Enable
"Script Active X controls marked safe for scripting"	Enable

- [7] Under "Miscellaneous", set "Userdata persistence" to "Enable".
- [8] Select [OK].
- [9] Select the "Privacy" tab.
- [10] Select "Advanced".
- [11] Check "Override Automatic Cookie handling".
- [12] Set "Cookies" as follows:

Function	Set to:			
First Party Cookies	Accept			
Second Party Cookies*	Accept			
* With Windows 2000XP and Windows 98				
OPERATING SYSTEMS, this function is "Third Party				
Cookies"				

[13] Select [OK].

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Installing a New Service Certificate

[1] Select Start>Programs>Kodak>SecureLink to connect the LAPTOP COMPUTER to the IMAGER.

Note

It is not necessary to do the instructions on the screen below.



[2] Click [OK].



- [3] Re-install your certificate.
 - (a) Under the "Certificate" tab, click on [Install Certificate].
 - (b) On the "Install Certificate File" screen, select the file with the "CRT" extension.
 - (c) Click [Open].
 - (d) When prompted, enter your SecureLink password.
 - **(e)** Click [OK] to complete installation of the certificate.

Renewing the DHCP Connection



Before you do the system upgrade you will have to back up the system configuration. This procedure renews the DHCP connection between your LAPTOP COMPUTER and the IMAGER to allow you to back up to your LAPTOP COMPUTER.

- [1] Use a CROSSOVER CABLE to connect the LAPTOP COMPUTER to the service port at the front of the IMAGER.
- [2] Renew the DHCP connection between the LAPTOP COMPUTER and the IMAGER as follows.

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For Windows 2000 or Windows NT OPERATING SYSTEMS	For Windows 98 OPERATING SYSTEMS
a. Open the DOS window.	a. Select Start>Run.
b. Type ipconfig /release	b. Type winipcfg
c. Type ipconfig /renew	c. Select "Network Adapter".
d. Continue with Connecting to the SERVICE TOOL.	d. Click:
	• [Release All]
	• [Renew All]
	e. Continue with Connecting to the SERVICE TOOL.

Note

You can also renew the DHCP connection by booting the laptop computer when it is set for DHCP and connected to the IMAGER.

Connecting to the SERVICE TOOL

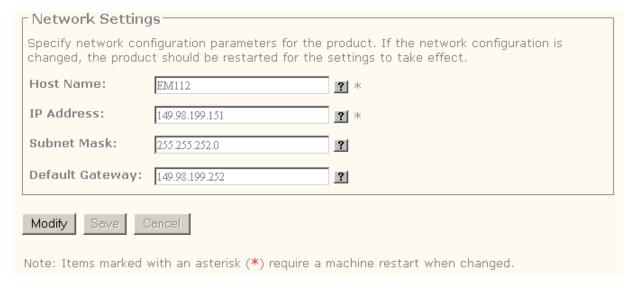
- [1] On the LAPTOP COMPUTER, select Start>Programs>Kodak>SecureLink.
- [2] Enter your SecureLink password.
- [3] Click [OK].
- [4] Select the "Connect" tab on the "Kodak SecureLink" screen.
- [5] Type an appropriate name in the "Server" window.
- [6] Type 192.168.0.1 in the "IP Address" window.
- [7] Click:
 - [Save Server]
 - [Connect]
- [8] Select Start>Programs>Kodak>Service WebLink.

Capturing the Network Settings of the IMAGER

Note

You should record the network settings for the IMAGER. They may need to be re-entered after the upgrade.

[1] From the Main Menu of the SERVICE TOOL, select **Configuration>System>Network** to display the Host Name and IP Address of the IMAGER.

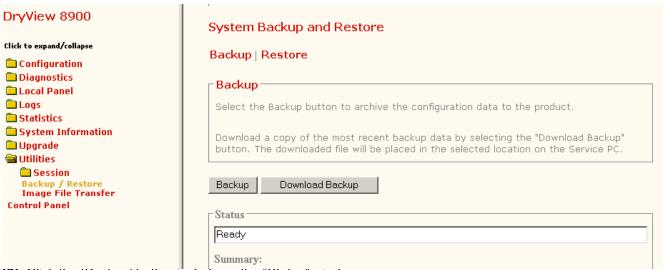


[2] Note the **Host Name** and **IP Address** for use later in these procedures.

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Backing up the System Configuration

[1] From the Main Menu of the SERVICE TOOL, select Utilities>Backup/Restore.



- [2] Click the [Backup] button just above the "Status" window.
- [3] Wait until "Status" indicates that Backup is complete.
- [4] Click [Download Backup].
- [5] Save a copy of the system configuration to a FLOPPY DISKETTE in your LAPTOP COMPUTER.

Note

The backup file will be used at the end of the upgrade procedure to restore the configuration.

[6] Close all applications.

Upgrading the DRE with New System Software - Ghosting

[1] Insert CD1 of the system software into the DVD DRIVE of the IMAGER.

Note

This CD includes the following files: BOOTCAT.BIN, BOOTIMG.BIN, and DREIMAGE.GHO.

[2] Restart the IMAGER from the LOCAL PANEL.

Note

Ghosting begins after the IMAGER boots from the DVD DRIVE. The IMAGER beeps 3 times when the procedure is completed.

- [3] Remove the CD from the DVD DRIVE.
- [4] Use the POWER SWITCH to de-energize the IMAGER.
- [5] Wait until the LOCAL PANEL is blank.
- [6] Use the POWER SWITCH to energize the IMAGER.

Note

If the KODAK Logo remains on for longer than 5 minutes, you should use the POWER SWITCH to boot again.

- [7] When the message "10-910 MCS Communications Down" appears on the LOCAL PANEL, close the error screen.
- [8] Calibrate the Touch Screen of the LOCAL PANEL.
 - (a) At the LOCAL PANEL, select the "Service" function.
 - For User ID, type 99
 - For Passcode, type 987654
 - (b) Select the "Calibrate Touch Screen" function.
 - (c) Touch [Calibration Type].

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- (d) On the "Calibration Type" screen:
 - Select "7 point" calibration.
 - Touch [OK].
- (e) Use a STYLUS or a PEN to touch the red centers of the TARGETS that appear on the screen.
- (f) Follow the instructions on the screen to complete the calibration.
- (g) Touch [Apply].
- (h) Touch [OK].

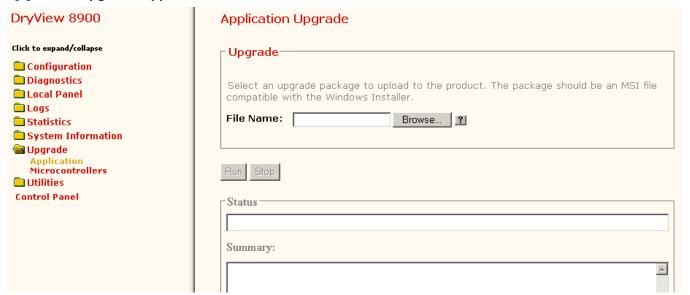
Upgrading the Software Applications for the MCS MASTER CPU BOARD and the MICRO BOARDS



Important

The HOOD of the IMAGER must remain closed, and the IMAGER must remain energized during this procedure. If power is de-energized during the upgrade, the MCS MICRO could be left not stable, and a new MICRO BOARD might have to be installed.

- [1] Select **Start>Settings>Control Panel>Power Options** to check the power save setup for your LAPTOP COMPUTER.
- [2] Check:
 - "Turn off hard disks" is set to "Never".
 - "System standby" is set to "Never" or "After 30 mins".
- [3] Click [Apply].
- [4] Re-connect to the SERVICE TOOL.
- [5] Select Upgrade>Application.



[6] Insert CD2 into the LAPTOP COMPUTER.



You should check that this CD has folders named "MCS" and "Synergy Service Tool".

[7] On the "Application Upgrade" screen, browse to and select the file in the MCS folder named "MCS040318Micro.msi".

Note

This file will automatically upgrade both the MASTER MCS and all the Micros on the I²C bus.

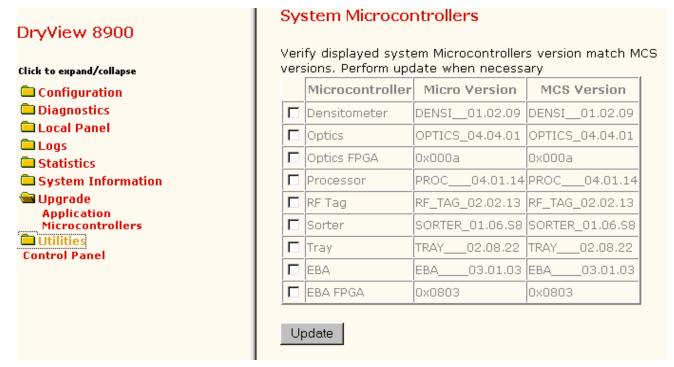
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[8] Click [RUN].

Note

A sequence similar to the following begins. The messages and timing of the upgrade will vary, depending on the level of the software that is being replaced.

- A "10-910 MCS Communications Down" message displays on the LOCAL PANEL and a status of "Printer Offline". (You should close this error screen.)
- In approximately 30 seconds, "Upgrade in progress" displays in the Status window and "Action start" displays in the Summary window on the SERVICE TOOL.
- In approximately 10 minutes, an "Incompatible Software Version Installed" message displays on the LOCAL PANEL and all the cartridge icons will flash. (You should close this error screen.)
- In approximately 17 minutes, a "10-910 MCS Communications Down" message displays on the LOCAL PANEL. (You should close this error screen.)
- In approximately 20 minutes, a "10-910 MCS Communications Down" message displays on the LOCAL PANEL. (You should close this error screen.)
- In approximately 26 minutes, "Upgrade Completed" displays in the Summary window.
- [9] Restart the IMAGER from the LOCAL PANEL.
- [10] Re-establish the connection with the SERVICE TOOL.
- [11] From the Main Menu of the SERVICE TOOL, select **Upgrade>Microcontrollers**.



- [12] Compare the software version in the "Micro Version" list with the version in the "MCS Version" list.
- [13] Place a mark in the check box by each Microcontroller name for which the Micro Version does not match the MCS Version.
- [14] Click [Update].



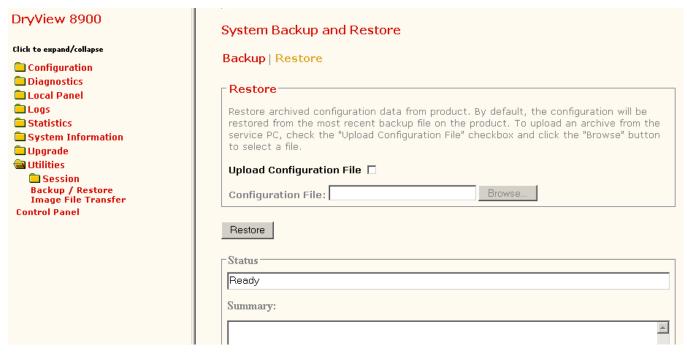
Status messages will indicate the status of the upgrade.

- [15] After each Micro upgrade completes, check that the numbers in the 2 Version lists are the same.
- [16] Remove the CD from the DVD DRIVE in the LAPTOP COMPUTER.

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Restoring the Configuration

[1] Select Utilities>Backup/Restore.



- [2] Select "Restore" from the top of the "System Backup and Restore" screen.
- [3] Place a mark in the "Upload Configuration File" check box.
- [4] Click [Browse] to locate the system configuration file you downloaded to FLOPPY DISKETTE.

Note

The file extension must be .BIN.

[5] Click [Restore].

Verifying the Network Settings for the IMAGER



You recorded the network settings for the IMAGER before the upgrades. These settings normally will be reset correctly during the restoration, but they should be verified.

- [1] From the Main Menu of the SERVICE TOOL, select Configuration>System>Network.
- [2] Check that the network settings are correct. If they are not correct:
 - (a) Click [Modify].
 - (b) Enter the Host Name and the IP Address that you recorded in Step 10 of "Capturing the Network Settings for the IMAGER".
 - (c) Click [Save].
 - (d) When a message appears asking you to restart the system, click [OK].

Note

You will restart the system in a later procedure.

(e) Wait approximately 10 seconds for the configuration to take effect.

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Resetting the Log Error Tally

- [1] Reset the current Log Error Tally.
 - (a) From the Main Menu of the SERVICE TOOL, select Logs>Error Tally.
 - (b) Select "Current".
 - (c) Click [Select All].
 - (d) Click [Reset].

Re-enabling the Mammo License



Important

If this upgrade procedure is a re-ghost of previously loaded Revision D or E software, the Mammo Enabled license will not be retained, and must be enabled as follows

[1] Select Configuration>System>Software License.



Note: Items marked with an asterisk (*) require a machine restart



Important

- The Site Key is a requirement for the Mammography upgrade.
- In the Americas, the Site Key is provided by the Technical Support Center (TSC).
- In all other areas, the Site Key is provided by the Specialists.
- The TSC or Specialist asks for the Site Code and the K-number of the IMAGER before providing the Site Key.
- [2] Click [Modify].
- [3] Type the Site Key information.
- [4] Click [Save].



Immediately after you click Save, the information in the Site Code window changes and the Site Key Window clears.

Re-enabling the Energy Save Mode (ESM)



Important

If this upgrade procedure is a re-ghost of previously loaded Revision D or E software, the Energy Save Mode (ESM) schedule will be restored, but the ESM will not be re-enabled. Re-enable ESM as follows.

- [1] From the Main Screen of the LOCAL PANEL, touch the [System Function] button.
- [2] Touch the [Energy Save Schedule] button.

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- [3] Touch the {Enable] button.
- [4] Enter the passcode and follow the screen instructions to re-enable the ESM.

Checking Parameter Settings

- [1] From the Main Menu of the SERVICE TOOL, select Utilities>Session>Restart.
- [2] Re-establish the connection with the SERVICE TOOL.
- [3] Select Configuration>System>Network to check that the IP Address is successfully restored.
- [4] Select **Configuration>DICOM SCP>SCP Services** to check that the SCU configuration parameters are restored.

Final Procedures

- [1] When the LOCAL PANEL indicates that the IMAGER is Ready, check the "zone" temperatures of the PROCESSOR. See the procedure in the ADJUSTMENTS AND REPLACEMENTS manual.
- [2] If necessary, adjust the temperatures.
- [3] Run test prints from each connected SCU.
- [4] Check image quality of the test prints with the customer.
- [5] Close the Service WebLink and the SecureLink Client.
- [6] Review the updates to the User Guide that were necessary because of this upgrade. These include:
 - Kodak Health Imaging and Microsoft End User License agreements have been added at the front of the manual.
 - Mammography film type/sizes are included. The available film sizes are 8 by 10 in. and 10 by 12 in. The manual incorrectly states that 10 by 12 in. film is available. See page 2-1.
 - An illustration of the new power icon screen is provided on page 3-2, showing the new Energy Save button.
 - An illustration is provided on page 3-4 showing "Mammography Upgrade" which appears in the Status screen title bar when the Mammography Upgrade is enabled.
 - An illustration of the new System Functions screen is provided on page 3-8, showing the QC Step Wedge button and the Energy Save Schedule button.
 - A new procedure, "Requesting a Step Wedge," is provided on page 3-20.
 - A new key operator procedure for Scheduling the automatic energy Save Mode is provided on page 3-36.
 - A New Appendix A is provided, which describes Mammography quality control procedures.

Completing the Modification

- [1] Use the SERVICE TOOL to record "Mod 5" in the Service History Log.
- [2] Record the following information for feedback.

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M05		SP7F6290

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	Notes
05MAY04	7F3728	CN0004917		New Publication

Kodak and DryView are trademarks of Eastman Kodak Company.

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 6 Type 1 Selective

Purpose: To enable the Mammography feature and film type of a Kodak DryView 8900 LASER IMAGER.



Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: The IMAGER must have Release 2, Rev D or higher

system software.

Serial Numbers: All

Installation Time: 1.5 hours

Special Tools • LAPTOP COMPUTER

SERVICE TOOL with Microsoft INTERNET

EXPLORER version 5.5 or higher

CROSSOVER CABLE

INSTALLATION INSTRUCTIONS for the Kodak

DryView 8900 LASER IMAGER 8E5986

• USER GUIDE for the Kodak DryView 8900 LASER

IMAGER, Rev C, 5E6155

Parts Status: None

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT SP7F6030 includes:

Part No.	Description	Quantity
7F3928	MODIFICATION INSTRUCTIONS	1

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Installing the Modification



Warning

Dangerous Voltage

- [1] Connect the LAPTOP COMPUTER to the service port. Use the CROSSOVER CABLE.
- [2] What is the *Microsoft* OPERATING SYSTEM?

Microsoft Windows 2000 or Windows NT OPERATING SYSTEMS	Microsoft Windows 98 OPERATING SYSTEM
a. Open the DOS window.	a. Select Start>Run.
b. Type: ipconfig/release	b. Type: winipcfg
c. Type: ipconfig/renew	c. Select "Network Adapter".
d. Continue with Step 3.	d. Click:
	• [Release All]
	• [Renew All]
	e. Continue with Step 3.

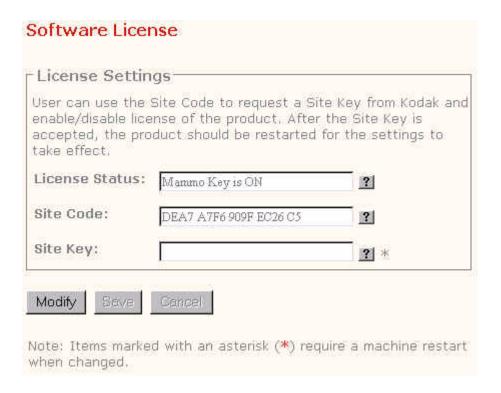


Note

You can also make the DHCP connection when the LAPTOP COMPUTER is set for DHCP and connected to the IMAGER.

- [3] Select Start>Programs>Kodak>Secure Link.
- [4] Select the "Connect" tab.
- [5] Type the "Server" name.
- [6] At the "IP address" window, type 192.168.0.1
- [7] Click:
 - [Save Server]
 - [Connect]
- [8] Select Start>Programs>Kodak>Service WebLink>Configuration>System>Software License.

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Important

- The "Site Key" is a requirement for the Mammography upgrade.
- In the Americas, the "Site Key" is provided by the Technical Support Center (TSC).
- In all other areas, the "Site Key" is provided by the Specialists.
- The TSC or Specialist asks for the "Site Code" and the K-number of the IMAGER before providing the "Site Key".
- [9] Click [Modify].
- [10] Type the "Site Key" information.
- [11] Click [Save].

Note

The information in the "Site Code" window changes and the "Site Key" window clears.

- [12] Do a shutdown and then restart the IMAGER.
- [13] Load the Kodak DryView MAMMOGRAPHY LASER IMAGING FILM into the IMAGER.
- [14] Connect the SERVICE TOOL.
- [15] Ask each MAMMOGRAPHY SCU to send an image to the IMAGER.
- [16] Do the configuration procedure for each SCU. See INSTALLATION INSTRUCTIONS 8E5986.

Section	Procedure
Installation	Doing the SCP Services

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The modification is not complete until you set the film base type and check the "Always Apply" check box.

[17] Select:

- Configuration>DICOM>SCP Services>Other Options>Film Base
- "MAMMO BLUE FILM" check box
- "YES" in the "ALWAYS APPLY?" check box

Completing the Modification

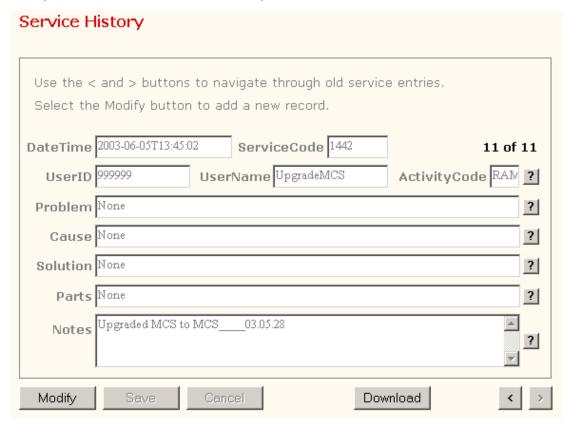
- [1] Load another MAMMOGRAPHY LASER IMAGING FILM in the IMAGER.
- [2] Run a Baseline test. See INSTALLATION INSTRUCTIONS 8E5986:

Section	Procedure			
Installation	Running a QC Baseline Test - Mammography			

- [3] Ask that a Mammography clinical image be sent to the IMAGER.
- [4] Ask the "Responsible Health Care Professional" at the site for an approval of the image result.
- [5] From the Main Menu of the SERVICE TOOL, select Utilities>Backup/Restore.
- [6] Click:
 - [Backup]
 - [Download Backup]
- [7] Record a copy of the information to a FLOPPY DISKETTE in your LAPTOP COMPUTER.

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[8] Select System Information> Service History.



[9] Click [Modify].



The system automatically enters: "DateTime", "ServiceCode", "UserID", and "UserName".

- [10] Type the remaining installation data in the other fields.
- [11] Click [Save].
- [12] Review the following procedures with the operator. See the USER GUIDE for the *Kodak DryView* 8900 LASER IMAGER, Rev C, 5E6155.

Section	Procedure
Appendix A	Quality Control Procedures

[13] Record the information for feedback:

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M06	1.5	SP7F6030

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
25MAR04	7F3928	CN0004740		7f3928.fm	New Publication

Kodak and DryView are trademarks of Eastman Kodak Company.

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 7 Type 1 Required

Purpose: To modify the PROCESSOR CONTROL BOARD with HEAT SINKS on the SOLID STATE RELAYS.



Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: Mandatory on the next call **Serial Numbers:** 890001188 and below

Installation Time: 0.5 hour

Special Tools:

Parts Status: Available from Service Parts Management

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT 7F3996 includes:

Part No.	Description	Quantity
7F3974	HEAT SINKS with TAPE	3
7F3983	PROCESSOR CONTROL BOARD	1
	Modification No. 7	

2 16MAR04 Rev A – 7F3983

Installing the Modification

Removing the PROCESSOR CONTROL BOARD

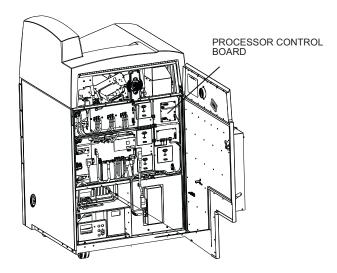
- [1] To de-energize the IMAGER from the LOCAL PANEL, touch:
 - The "power" icon
 - {Shut Down]



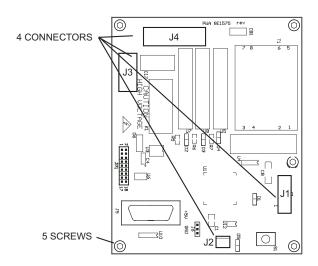
Warning

Dangerous Voltage

- [2] Disconnect the POWER CORD.
- [3] Open the BACK DOOR.



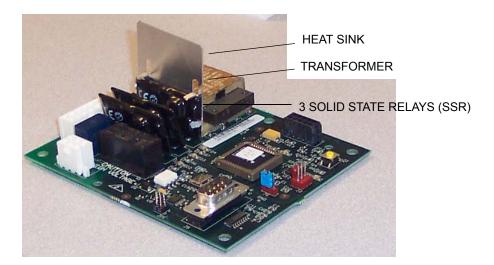
[4] Locate the PROCESSOR CONTROL BOARD.



- [5] Disconnect the 4 CONNECTORS, J1 J4.
- [6] Remove the 5 SCREWS.
- [7] Remove the BOARD.

7F3983 – 16MAR04 Rev A 3

Installing the HEAT SINKS

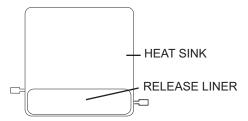




Important

There are 3 SOLID STATE RELAYS (SSRs) mounted on the PROCESSOR CONTROL BOARD.

[1] Carefully move the REAR SSR away from the TRANSFORMER.



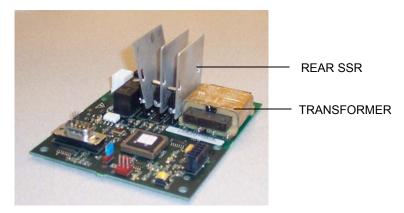
- [2] Remove the RELEASE LINER from the HEAT SINK.
- [3] Position the HEAT SINK on the flat side of the SSR.
- [4] Press the HEAT SINK firmly to the flat side of the SSR.



Caution

Use caution not to crack the EPOXY CASE on the SSR.

[5] Bend only the SIDE TABS around the SSR.



- [6] Repeat Step 1 through Step 5 for the next 2 SSRs.
- [7] Move the SSRs and HEAT SINKS so that they are all separated as much as possible. The REAR SSR should be close but not touching the TRANSFORMER..

4 16MAR04 Rev A – 7F3983

Installing the PROCESSOR CONTROL BOARD

- [1] Reverse the steps in the removal procedure.
- [2] Energize the IMAGER.

Completing the Modification

- [1] Use the SERVICE TOOL to record "Mod 7" in the Service History Log.
- [2] Record the following information for feedback.

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M07		7F3996

7F3983 – 16MAR04 Rev A 5

Publication History

	Publication		Changed	
Publication Date	No.	ECO No.	Pages	Notes
16MAR04	7F3983	CN0004723		New Publication

Kodak and DryView are trademarks.

MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 8 Type 1 Selective

Purpose: To elim

To eliminate ground noise in the IMAGING AY that causes parity errors 27-912 and 27-914. The modification includes installation of 2 ISOLATION GASKETS between the IMAGING CABLES and the CABLE SUPPORT BRACKET and installation of a new FLEX TERMINATION BOARD with modified ground circuits.



Qualified service personnel must install this modification.

Service Effects: None
Special Requirements: None

Serial Numbers: This modification applies to all IMAGERS experiencing parity errors 27-912 and 27-914.

Installation Time: 1 hour

Special Tools: • LAPTOP COMPUTER

SERVICE TOOL with Microsoft INTERNET EXPLORER 5.5 or higher

• CROSSOVER CABLE

Parts Status: Available from Service Parts Management.

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

PLATEN ISOLATION GASKET MODIFICATION KIT SP7F6191 includes:

Part No.	Description	Quantity
8E4986	ISOLATION GASKET, Long	1
8E4987	ISOLATION GASKET, Short	1
8E1567	FLEX TERMINATION BOARD	1
7F6268	MODIFICATION INSTRUCTIONS	1

2 05MAY04 – 7F6268

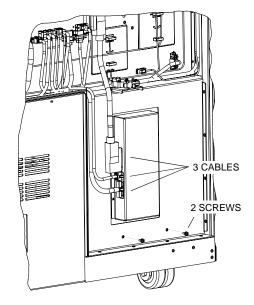
Installing the Modification



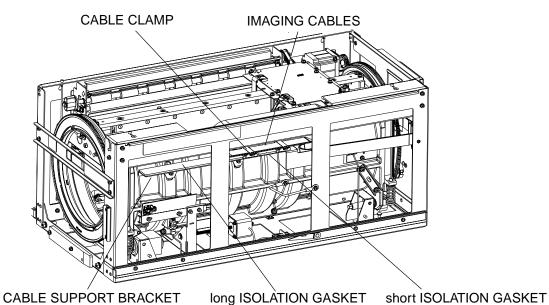
Warning

Dangerous Voltage

- [1] De-energize the LASER IMAGER.
- [2] Disconnect the POWER CABLE.
- [3] Extend the IMAGING AY.
 - (a) Open the BACK DOOR.



- (b) Remove:
 - 3 CABLES
 - 2 SCREWS
- (c) Open the left FRONT DOOR.
- (d) Pull out the IMAGING AY.
- [4] Install the 2 ISOLATION GASKETS.



- (a) Peel the LINER from the long ISOLATION GASKET.
- (b) Install the long ISOLATION GASKET on the CABLE SUPPORT BRACKET.

7F6268 – 05MAY04

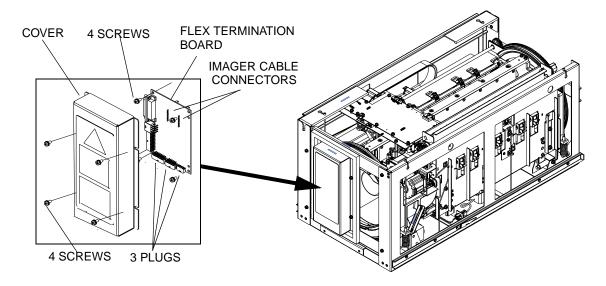
3

(c) Open one of the CABLE CLAMPS attached to the CABLE SUPPORT BRACKET.

Note

The CABLES are precisely positioned by the 2 CABLE CLAMPS. If you open both CABLE CLAMPS, you may lose the positioning. If you find it necessary to open both CLAMPS to install the GASKET, first mark the top CABLE beside one of the CLAMPS so the CABLES can be returned to their original position.

- (d) Peel the LINER from the short ISOLATION GASKET.
- (e) Lift the IMAGING CABLES and install the short ISOLATION GASKET on the CABLE SUPPORT BRACKET between the 2 CABLE CLAMPS.
- (f) Close the CABLE CLAMP(S).
- [5] Push the IMAGING AY back into the IMAGER.
- [6] Remove the FLEX TERMINATION BOARD from the back of the IMAGING AY.



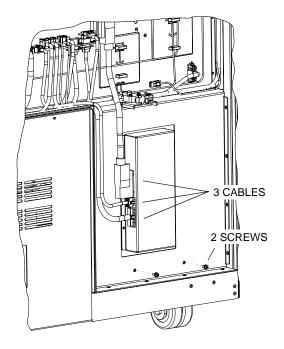
- (a) Remove:
 - 4 SCREWS
 - COVER
- (b) Remove 3 PLUGS from the bottom of the FLEX TERMINATION BOARD.
- (c) Remove 4 SCREWS.
- (d) Pull the FLEX TERMINATION BOARD forward to gain access to the flat IMAGER CABLES.
- (e) Disconnect the 2 IMAGER CABLES from the back of the FLEX TERMINATION BOARD.



Possible damage from electrostatic discharge.

[7] Wearing a WRIST STRAP, install the new FLEX TERMINATION BOARD in reverse order of the procedure in Step 6 above.

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- [8] Reconnect the 3 CABLES to the back of the IMAGING AY.
- [9] Install the 2 SCREWS.
- [10] Close the BACK DOOR.
- [11] Close the left FRONT DOOR.

Checking Operation of the IMAGER



Warning

Dangerous Voltage

- [1] Re-connect the POWER CORD.
- [2] Energize the IMAGER.
- [3] Allow the IMAGER to warm to the READY state.
- [4] Run test prints to check operation of the IMAGER.

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Connecting to the SERVICE TOOL

- [1] Open the right FRONT DOOR.
- [2] Use a CROSSOVER CABLE to connect the LAPTOP COMPUTER to the SERVICE PORT of the IMAGER.
- [3] "Renew" the DHCP connection between the LAPTOP COMPUTER and the IMAGER.

For Windows 2000 or Windows NT OPERATING SYSTEMS	For Windows 98 OPERATING SYSTEMS
a. Open the DOS window.	a. Select Start>Run.
b. Type: ipconfig /release	b. Type: winipcfg
c. Type: ipconfig /renew	c. Select "network adapter".
	d. Click:
	• [Release All]
	• [Renew All]



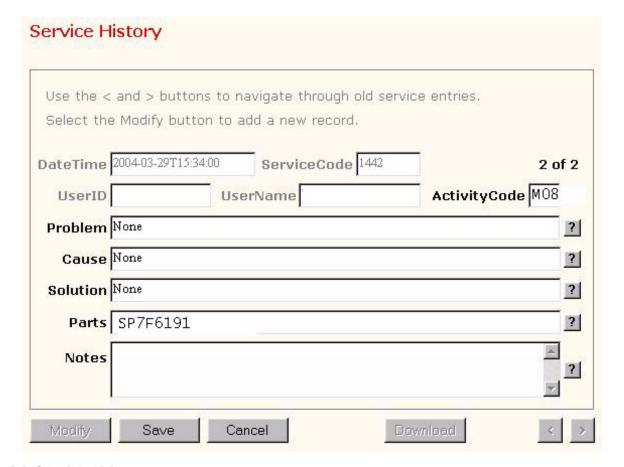
You can also "renew" the DHCP connection by booting your LAPTOP COMPUTER when it is set for DHCP and connected to the IMAGER.

- [4] Select Start>Programs>Kodak>SecureLink.
- [5] Select the "Connect" tab.
- [6] Type the correct "Server" name.
- [7] Type in the "IP address" window: 192.168.0.1.
- [8] Click:
 - [Save Server]
 - [Connect]
- [9] Select Start>Programs>Kodak>Service WebLink.

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Editing the Service History Log

[1] Select System Information>Service History.



[2] Click [Modify].



The following fields on the screen are filled in automatically:

- "DateTime"
- "ServiceCode"
- "UserID"
- "UserName"
- [3] Type data about the installation in the other fields.
- [4] Click [Save].

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Completing the Modification

[1] Record the following information for feedback:

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M08		SP7F6191

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	File Name	Notes
05MAY04	7F6268	CN0004846		7f6268.fm	New Publication

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MODIFICATION INSTRUCTIONS for the Kodak DryView 8900 LASER IMAGER Service Code: 1442

Modification No. 9 Type 1 Required - Japan Only

Purpose: To install a new PROCESSOR CONTROL BOARD that has SOLID STATE RELAYS with higher

current capacity.



Qualified service personnel must install this modification.

Service Effects: None

Special Requirements: Mandatory on the next call **Serial Numbers:** 890001485 and below

Installation Time: 0.5 hour

Special Tools:

Parts Status: Available from Service Parts Management

Parts Requirements: See Page 2.



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

MODIFICATION KIT SP8F0124 includes:

Part No.	Description	Quantity
SP7F3360	PROCESSOR CONTROL BOARD	1

2 18AUG04 – 8F0115

Installing the Modification

Removing the PROCESSOR CONTROL BOARD

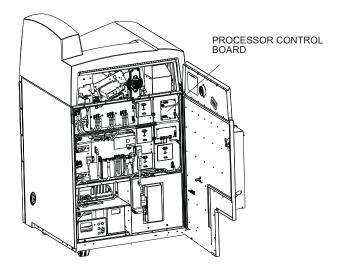
- [1] To de-energize the IMAGER from the LOCAL PANEL, touch:
 - The "power" icon
 - {Shut Down]



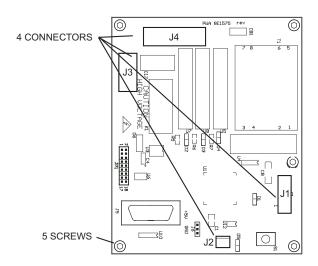
Warning

Dangerous Voltage

- [2] Disconnect the POWER CORD.
- [3] Open the BACK DOOR.



[4] Locate the PROCESSOR CONTROL BOARD.



- [5] Disconnect the 4 CONNECTORS, J1 J4.
- [6] Remove the 5 SCREWS.
- [7] Remove the BOARD.

Installing the PROCESSOR CONTROL BOARD

[1] Reverse the steps in the removal procedure.



It might be necessary to cut the TIE WRAP holding the J3 (PROCESSOR COMMUNICATIONS) HARNESS to allow the new PROCESSOR CONTROL BOARD to position correctly.

- [2] Energize the IMAGER.
- [3] If a 20-156 error occurs, indicating that the software is not compatible, upgrade the software in the new PROCESSOR CONTROL BOARD. See ADJUSTMENTS and REPLACEMENTS 8E5982:

Section	Procedure	
	Upgrading the "Microcontroller" Application when a New MICRO BOARD is Installed	

Completing the Modification

- [1] Use the SERVICE TOOL to record "Mod 9" in the Service History Log.
- [2] Record the following information for feedback.

K-number	Service Code	Serial No.	Activity Code	Installation Time	Part No.
	1442		M09		SP8F0124

Publication History

Publication Date	Publication No.	ECO No.	Changed Pages	Notes
18AUG04	8E0115	CN0005263		New Publication

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